

CERTIFICATE OF ANALYSIS

Work Order	EW1903600	Page	: 1 of 3		
Client	: WOLLONGONG CITY COUNCIL	Laboratory	Environmental Division NS	W South Coast	
Contact	: DELLA KUTZNER	Contact	: Glenn Davies		
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Telephone	: +61 02 4227 7111	Telephone	: 02 42253125		
Project	: Stormwater adjacent to Pony Club	Date Samples Received	: 20-Aug-2019 10:38	ANUTU.	
Order number	: 1005960	Date Analysis Commenced	: 20-Aug-2019		
C-O-C number	:	Issue Date	: 29-Aug-2019 08:28		
Sampler	: Robert DaLio		-	Hac-MRA NATA	
Site	:				
Quote number	: WO/005/18 TENDER			Accreditation No. 825	
No. of samples received	: 1			Accredited for compliance with	
No. of samples analysed	: 1			ISO/IEC 17025 - Testing	

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Celine Conceicao	Senior Spectroscopist	Sydney Inorganics, Smithfield, NSW
Dian Dao		Sydney Inorganics, Smithfield, NSW
Glenn Davies	Environmental Services Representative	Laboratory - Wollongong, NSW
Tony DeSouza	Senior Microbiologist	Sydney Microbiology, Smithfield, NSW



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.
- MF = membrane filtration
- CFU = colony forming unit
- Microbiological Comment: In accordance with ALS work instruction QWI-MIC/04, membrane filtration result is reported an approximate (~) when the count of colonies on the filtered membrane is outside the range
 of 10 100cfu.
- Sampling and sample data supplied by ALS Wollongong.
- Field tests completed on day of sampling/receipt.
- Membrane filtration results for MW006 are reported as an estimate (~) due to the presence of many non-target organism colonies that may have inhibited the growth of the target organisms on the filter membrane.
 It may be informative to record this fact.
- Sampling Completed as per EN/67.4 Lakes and Reservoirs
- MW006 is ALS's internal code and is equivalent to AS4276.7.



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)	Client sample ID			Stormwater adjacent to Ponyclub				
	Client sampling date / time			20-Aug-2019 10:25				
Compound	CAS Number	LOR	Unit	EW1903600-001				
				Result				
EA005FD: Field pH								
рН		0.1	pH Unit	7.9				
EA010FD: Field Conductivity								
Electrical Conductivity (Non		1	µS/cm	555				
Compensated)								
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C		10	mg/L	326				
EA075FD: Field Redox Potential								
Redox Potential		0.1	mV	190				
ED093T: Total Major Cations								
Potassium	7440-09-7	1	mg/L	1				
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	0.11				
EP005: Total Organic Carbon (TOC)								
Total Organic Carbon		1	mg/L	12				
EP025FD: Field Dissolved Oxygen								
Dissolved Oxygen		0.01	mg/L	8.47				
MW006: Faecal Coliforms & E.coli by MF								
Faecal Coliforms		1	CFU/100mL	~1				